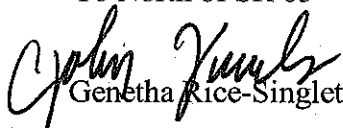



**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 110670-, Banks County **OFFICE** Preconstruction
NH-IM-85-2(171)
I-85 Widening from North of SR 15/US 441 **DATE** April 9, 2008
To North of SR 63

FROM  Genetha Rice-Singleton, Assistant Director of Preconstruction

TO  SEE DISTRIBUTION

SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

Attachment

DISTRIBUTION:

Brian Summers
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Joe Sheffield
Paul Liles
Russell McMurry
Robert Mahoney
BOARD MEMBER



U.S. Department
of Transportation
**Federal Highway
Administration**

Georgia Division

61 Forsyth St. SW 17T100
Atlanta, GA 30303

February 19, 2008

In Reply Refer To:
HTM-GA

Ms. Gena L. Abraham, Commissioner
Department of Transportation
No. 2 Capitol Square
Atlanta, Georgia 30334

Todd Long - Director of Preconstruction
Attention: ~~Mike Thomas, Director, Division of Transportation Planning, Data and Intermodal
Development~~

Dear Ms. Abraham:

Our office has reviewed and approved the revised Concept Reports NH-IM-85-2 (165, 166, 167, 168, 169, 170, 171, 172, 173, 174) conditioned upon the following comments being satisfied:

- For project NH-IM-85-2(167), please evaluate the option of raising SR 332 in the design phase (as opposed to lowering the Interstate profile).
- Several of the reports indicate the reconstruction of Interstate bridges to accommodate 8 lanes total width. After discussion with your staff, we have agreed that all bridges will only be widened to accommodate six lanes.
- Approval of these Concept Reports does not constitute approval of design decisions (sequence of construction/staging etc.).

Please contact George Merritt if you have any questions at 404-562-3655 or george.merritt@fhwa.dot.gov.

Sincerely,

Sharon Chandra

For: Rodney Barry, P.E.
Division Administrator

**MOVING THE
AMERICAN
ECONOMY**

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE : NH-IM-85-2(171) Banks County **OFFICE** Consultant Design
PI No. 110670
I-85 From North of SR 15/US 441 to North of SR 63 **DATE** February 20, 2007

FROM: *For Stanley Hill* Mohammed (Babs) Abubakari, P.E.
State Consultant Design and Program Delivery Engineer

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT Revised Project Concept Report

Attached is the original copy of the revised Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

This concept revision involves the revision of five features. The first is a change in the typical section to decrease the inside shoulder width adjacent to the median barrier from 12'-9" to 12'-0" and to decrease the outside shoulder width from 16'-0" to 12'-0". Additionally, a design exception will be required for the inside shoulder widths on I-85 at all bridges over I-85 due to the encroachment of the concrete barrier into the inside shoulder. The concrete median barrier will be transitioned around the bridge columns at all overpasses. Next, the controlling criteria for bridge widths will be revised. All bridges on I-85 through the project corridor will be widened to provide sufficient width for the typical section changes noted above as well as a future four lane on the outside. Also, the controlling criteria for sag vertical curves will be revised. Existing sag vertical curves will be reconstructed as part of this project to meet current criteria established in the 2004 Green Book. Due to sag vertical curve corrections, the bridges at the Hudson River crossing on I-85 will require replacement in lieu of widening as stated in the concept report. Finally, the design exceptions to controlling criteria for substandard stopping sight distance described in the Project Concept Report will no longer be required.

The revised concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Program (RTP) and/or the State Transportation Improvement Program (STIP).

DATE 3-7-07

Angela T. Alexander
State Transportation Planning Administrator

Distribution: Brian Summers, Project Review Engineer
Harvey Keepler, State Environment/Location Engineer
Keith Golden, State Traffic Safety and Design Engineer
Angela T. Alexander, State Transportation Planning Administrator
Jamie Simpson, State Financial Management Administrator
Russell McMurtry, District One Engineer
Paul Liles, State Bridge Design Engineer

REVISED PROJECT CONCEPT REPORT

Need and Purpose: See attached Need and Purpose statement.

Project Location: This project is located in Banks County, beginning just north of US 441/SR 15 (mile log 149.8) and ending just north of SR 63 (mile log 154.3). The total length of the project is approximately 4.5 miles.

Description of the approved concept: The approved concept for this project consists of the widening of I-85 from the existing four-lane divided section with a depressed median to a six-lane section with a median barrier.

PDP Classification: Major _____ Minor X

Federal Oversight: Full Oversight (X), Exempt(), SF(), Other ()

Functional Classification: Rural Interstate Principal Arterial

U. S. Route Number(s): I-85 **State Route Number(s):** SR 403

Traffic (AADT) as shown in the approved concept:

Current Year (2005): 51,200

Design Year (2025): 87,100

Proposed features to be revised:

- **Typical section:**
 - Six 12' lanes
 - 146' depressed median
 - 14' inside shoulder (12'-9" paved)
 - 16' outside shoulder (14' paved)
 - Asphalt pavement section with asphalt overlay of existing pavement

The typical section will be revised to decrease the inside and outside paved shoulder widths per agreement with FHWA. The revised typical section will begin on I-85 just north of US 441/SR 15 and extend throughout the project corridor, ending just north of SR 63.

- **Controlling criteria:**
 - Major Structures
 - 204'x67' and 204'x67' Widen two parallel two-lane bridges over Grove River on I-85 to two parallel three-lane bridges
 - 131'x69' and 131'x69' Widen two parallel two-lane bridges over Harden Bridge Road (CR 16) on I-85 to two parallel three-lane bridges
 - 151'x77' and 151'x77' Replace two parallel two-lane bridges over SR 164 on I-85 with two parallel three-lane bridges
 - 200'x67' and 180'x67' Widen two parallel two-lane bridges over Hudson River on I-85 to two parallel three-lane bridges

The controlling criteria for bridge width will be revised to reflect the changes in the typical section as noted above as well as provisions for a future fourth lane on the outside of the proposed structures.

- Design exceptions to controlling criteria anticipated:
Design exceptions for inside shoulder width will be required for I-85 at SR 63 over I-85.

This design exception was not noted in the approved concept report. The concrete median barrier on I-85 will be transitioned around the bridge columns at all overpasses. Design Exceptions for inside shoulder width are required at these locations due to the transition of the concrete barrier encroaching on the 12'-0" paved inside shoulder. As a result, the remaining inside shoulder width at the bridge columns will be 9'-10" measured from the inside edge of travel to the face of the barrier, of which 7'-10" is considered useable. AASHTO's 2004 edition of "A Policy on Geometric Design of Highways and Streets" states that the minimum usable shoulder width should be 10'-0" for a paved median shoulder. The paved shoulder will not meet this minimum width at the location listed above.

- Design exceptions to controlling criteria anticipated:
A Design Exception will be required for substandard stopping sight distance at milepost 150.4, between Grove River and CR 16, mileposts 150.9 and 151.4, between CR 16 and SR 164, and also at mileposts 152.2, 152.8, 153.2 and 153.4 between SR 164 and SR 63.

Design Exceptions for substandard stopping sight distance are no longer required due to the change in design controls for crest vertical curves in AASHTO's 2004 edition of "A Policy on Geometric Design of Highways and Streets". Additionally, and vertical curves that do not meet the sag vertical curve criteria will be reconstructed to meet current criteria.

Describe the revised features to be approved:

- **The revised typical section:**

Mile log 149.8-150.2 & 154.1-154.3

- Six 12' lanes, outside lane paving will extend 1'-0" into the paved outside shoulder but will be striped at 12'-0"
- Median Barrier (Type S-1, S-2 or S-3)
- 13'-2" inside shoulder (12' paved)
- 14' outside shoulder (12' paved), includes 1'-0" extension of outside lane pavement
- Concrete pavement section with full depth reconstruction of existing pavement and an alternative pavement section (asphalt or concrete) for the paved shoulders

Mile log 150.2-154.1

- Six 12' lanes, outside lane paving will extend 1'-0" into the paved outside shoulder but will be striped at 12'-0"
- 128'-4" depressed median
- 14' inside shoulder (12' paved)
- 14' outside shoulder (12' paved), includes 1'-0" extension of outside lane pavement
- Concrete pavement section with full depth reconstruction of existing pavement and an alternative pavement section (asphalt or concrete) for the paved shoulders

The revised typical section will begin on I-85 just north of US 441/SR 15 and extend throughout the project corridor, ending just north of SR 63.

- **Controlling criteria:**

- Major Structures
 - I-85 over Grove Creek – 204'x74' and 204'x74'. Widen two parallel two-lane bridges over Grove River on I-85 to two parallel ^{three} four-lane bridges.

The bridges on I-85 over Grove Creek will be revised from the approved concept report. The proposed design calls for the widening of the two parallel two-lane bridges over Grove Creek to two parallel 3-lane bridges. The proposed northbound structure is 67 feet wide by 204 feet long, and the proposed southbound structure is 67 feet wide by 204 feet long. The revised design calls for the widening of existing northbound bridge to a single ³/₄-lane bridge, and the widening of the southbound bridge to provide a single ³/₄-lane bridge. The revised northbound structure is 74 feet wide by 204 feet long and the revised southbound structure is 74 feet wide by 204 feet long.

- I-85 over Harden Bridge Road (CR 16) - 132'x74' and 132'x74' Widen two parallel two-lane bridges over Harden Bridge Road (CR 16) on I-85 to two parallel ~~four~~ ^{three}/₄-lane bridges.

The bridges on I-85 over Harden Bridge Road (CR 16) will be revised from the approved concept report. The proposed design calls for the widening of the two parallel two-lane bridges over Harden Bridge Road (CR 16) to two parallel 3-lane bridges. The proposed northbound structure is 69 feet wide by 131 feet long, and the proposed southbound structure is 69 feet wide by 131 feet long. The revised design calls for the widening of existing northbound bridge to a single ³/₄-lane bridge, and the widening of the southbound bridge to provide a single ³/₄-lane bridge. The revised northbound structure is 74 feet wide by 132 feet long and the revised southbound structure is 74 feet wide by 132 feet long.

- I-85 over SR 164 - 151'x74' and 151'x74' Replace two parallel two-lane bridges over SR 164 on I-85 with two parallel four-lane bridges.

The bridges on I-85 over SR 164 will be revised from the approved concept report. The proposed design calls for the replacement of the two parallel two-lane bridges over SR 164 with two parallel 3-lane bridges. The proposed northbound structure is 77 feet wide by 151 feet long, and the proposed southbound structure is 77 feet wide by 151 feet long. The revised design calls for the replacement of existing northbound bridge to a single ³/₄-lane bridge, and the replacement of the southbound bridge to provide a single ³/₄-lane bridge. The revised northbound structure is 74 feet wide by 151 feet long and the revised southbound structure is 74 feet wide by 151 feet long.

- I-85 over Hudson River - 200'x74' and 180'x74' Replace two parallel two-lane bridges over Hudson River on I-85 due to vertical corrections with two parallel four-lane bridges.

The bridges on I-85 over Hudson River will be revised from the approved concept report. The proposed design calls for the widening of the two parallel two-lane bridges over Hudson River to two parallel 3-lane bridges. The proposed northbound structure is 67 feet wide by 200 feet long, and the proposed southbound structure is 67 feet wide by 180 feet long. The revised design calls for the replacement of existing northbound bridge to a single ³/₄-lane bridge, and the replacement of the southbound bridge to provide a single ³/₄-lane bridge. The revised northbound structure is 74 feet wide by 200 feet long and the revised southbound structure is 74 feet wide by 180 feet long.

- o Design Exceptions to controlling criteria anticipated:
Design exceptions for inside shoulder width will be required for I-85 at SR 63 over I-85. The minimum inside useable shoulder width is 10'-0". The inside shoulder width will be 9'-10" measured from the inside edge of travel to the face of the barrier at the bridge columns, of which 7'-10" is considered useable.
- o Design Exceptions for substandard stopping sight distance are no longer required at milepost 150.4, between Grove River and CR 16, mileposts 150.9 and 151.4, between CR 16 and SR 164, and also at mileposts 152.2, 152.8, 153.2 and 153.4 between SR 164 and SR 63.

Updated traffic data (AADT):

Current Year (2009): 50,100

Design Year (2029): 83,100

Programmed/Schedule:

P.E.: 2005

R/W: N/A

Construction: 2012

Revised Cost Estimate:

1. Construction cost including inflation and E&C, \$71,806,596
2. Right-of-Way, \$0
3. Utilities, \$0

Is the project located in a Non-attainment area? Yes X No

Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Attachments:

1. Sketch Map
2. Cost Estimate
3. Need and Purpose Statement
4. Revised Typical Sections

Concur: 

Director of Preconstruction

Approve: 

For: Division Administrator, FHWA

Approve: 

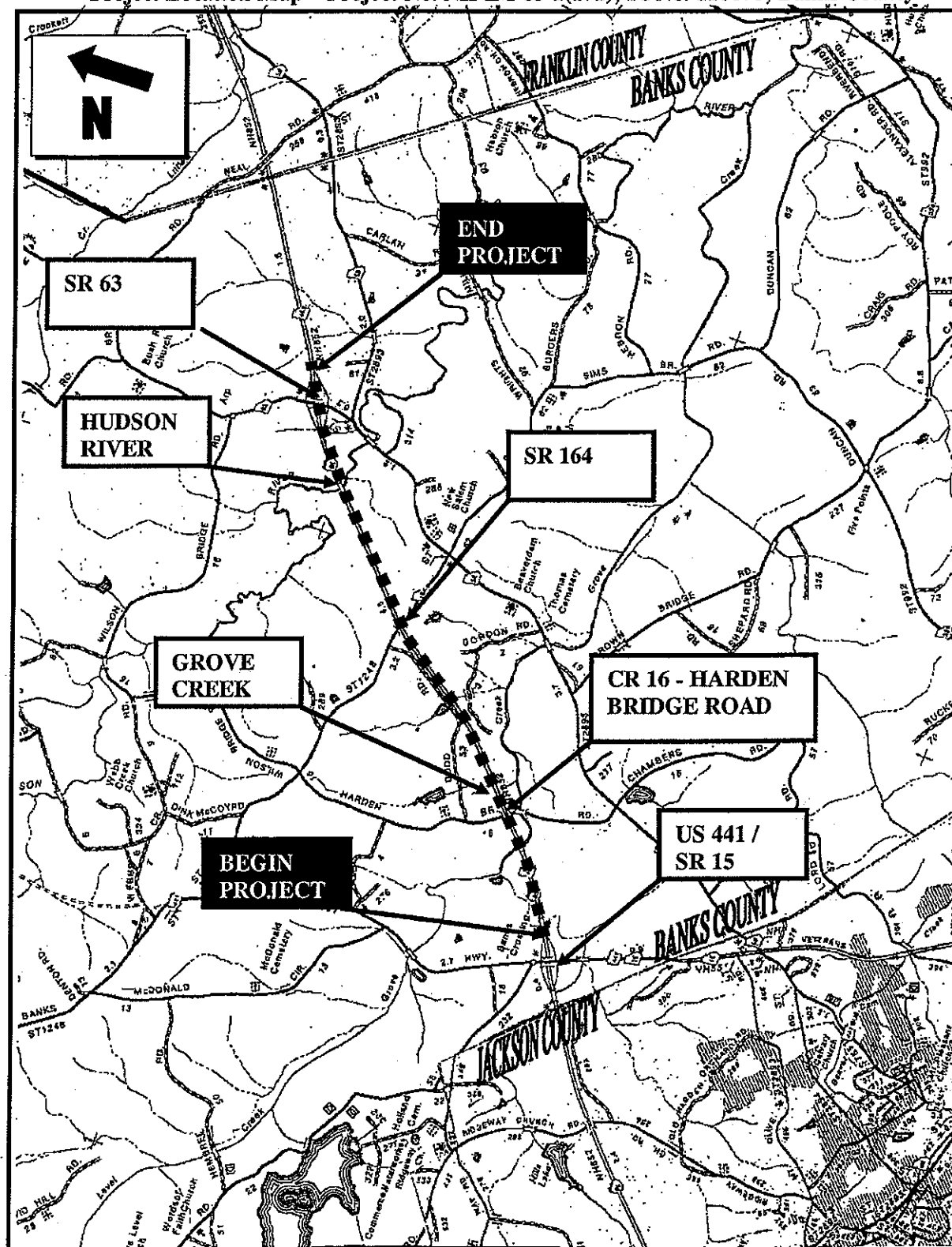
Chief Engineer

Project No. NH-IM-85-2(171)

PI No. 110670

County: Banks

Project Location Map - Project No. NH-IM-85-2(171); PI No. 110670; Banks County



Estimate Report for file "110670"

Section MAJOR STRUCTURES					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
207-0203	200	CY	37.17	FOUND BK FILL MATL, TP II	7434.00
500-3101	200	CY	465.58	CLASS A CONCRETE	93116.00
511-1000	20000	LB	0.73	BAR REINF STEEL	14600.00
540-1102	2	LS	20000.00	REMOVAL OF EXISTING BR, BR NO - 2 I-85 OVER SR 164	40000.00
540-1102	2	LS	20000.00	REMOVAL OF EXISTING BR, BR NO - 2 I-85 OVER HUDSON RIVER	40000.00
999-9999	23330	SF	60.00	BRIDGE REPLACEMENT - I-85 OVER SR 164 (2@77.25 x 151)	1399800.00
999-9999	13056	SF	62.50	BRIDGE WIDENING - I-85 OVER GROVE RIVER (2@32 x 204)	816000.00
999-9999	8384	SF	100.00	BRIDGE WIDENING - I-85 OVER HARDEN BRIDGE ROAD (2@32 x 131)	838400.00
999-9999	29355	SF	60.00	BRIDGE REPLACEMENT - I-85 OVER HUDSON RIVER (77.25 x 180 & 77.25 x 200)	1761300.00
Section Sub Total:					\$5,010,650.00

Section GRADING AND DRAINAGE					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
201-1500	1	LS	4500000.00	CLEARING & GRUBBING -	4500000.00
206-0002	30000	CY	4.54	BORROW EXCAV, INCL MATL	136200.00
208-0100	92000	CY	9.34	IN PLACE EMBANKMENT	859280.00
500-3800	12	CY	659.38	CLASS A CONCRETE, INCL REINF STEEL	7912.56
550-1180	1200	LF	32.88	STORM DRAIN PIPE, 18 IN, H 1-10	39456.00
550-1240	1200	LF	39.78	STORM DRAIN PIPE, 24 IN, H 1-10	47736.00
550-1300	600	LF	49.90	STORM DRAIN PIPE, 30 IN, H 1-10	29940.00
550-1360	600	LF	60.33	STORM DRAIN PIPE, 36 IN, H 1-10	36198.00
550-1420	300	LF	77.44	STORM DRAIN PIPE, 42 IN, H 1-10	23232.00
550-1480	300	LF	97.51	STORM DRAIN PIPE, 48 IN, H 1-10	29253.00
550-1600	450	LF	128.26	STORM DRAIN PIPE, 60 IN, H 1-10	57717.00
550-4218	20	EA	482.38	FLARED END SECTION 18 IN, STORM DRAIN	9647.60
550-4224	20	EA	538.00	FLARED END SECTION 24 IN, STORM DRAIN	10760.00
550-4230	10	EA	668.45	FLARED END SECTION 30 IN, STORM DRAIN	6684.50
550-4236	10	EA	907.31	FLARED END SECTION 36 IN, STORM DRAIN	9073.10
550-4242	4	EA	1088.01	FLARED END SECTION 42 IN, STORM DRAIN	4352.04
576-1018	2000	LF	26.35	SLOPE DRAIN PIPE, 18 IN	52700.00
668-2110	30	LF	248.32	DROP INLET, GP 1, ADDL DEPTH	7449.60
668-2231	34	EA	2747.69	DROP INLET, GP 1, MODIFIED TP M-1	93421.46
668-2233	10	EA	5446.65	DROP INLET, GP 1, MODIFIED TP M-3	54466.50
Section Sub Total:					\$6,015,479.36

Section BASE AND PAVING					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
310-1101	281000	TN	25.00	GR AGGR BASE CRS, INCL MATL	7025000.00
402-3121	85300	TN	80.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	6824000.00
402-3130	15100	TN	80.00	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	1208000.00
402-3190	49200	TN	80.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	3936000.00
413-1000	21570	GL	1.05	BITUM TACK COAT	22648.50
430-1220	195400	SY	70.00	CONT REINF CONC PVMT, CL HES CONC, 11 INCH THK	13678000.00
433-1000	2400	SY	149.29	REINF CONC APPROACH SLAB	358296.00
610-2845	200000	SY	50.00	REM CONC PVMT	10000000.00
Section Sub Total:					\$43,051,944.50

Section GRASSING AND EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	61	AC	483.39	TEMPORARY GRASSING	29486.79
163-0240	1200	TN	195.38	MULCH	234456.00
163-0300	30	EA	1254.90	CONSTRUCTION EXIT	37647.00
163-0503	35	EA	490.56	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	17169.60

163-0520	5000	LF	12.59	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	62950.00
163-0521	250	EA	165.69	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS	41422.50
163-0530	5000	LF	2.71	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	13550.00
163-0550	44	EA	246.79	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	10858.76
165-0010	6000	LF	1.07	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	6420.00
165-0030	23750	LF	1.18	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	28025.00
165-0040	250	EA	69.45	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	17362.50
165-0070	2500	LF	1.48	MAINTENANCE OF BALED STRAW EROSION CHECK	3700.00
165-0087	35	EA	175.14	MAINTENANCE OF SILT CONTROL GATE, TP 3	6129.90
165-0101	90	EA	417.31	MAINTENANCE OF CONSTRUCTION EXIT	37557.90
165-0105	44	EA	87.71	MAINTENANCE OF INLET SEDIMENT TRAP	3859.24
167-1000	2	EA	1767.98	WATER QUALITY MONITORING AND SAMPLING	3535.96
167-1500	30	MO	838.87	WATER QUALITY INSPECTIONS	25166.10
171-0010	12000	LF	1.86	TEMPORARY SILT FENCE, TYPE A	22320.00
171-0030	47500	LF	3.19	TEMPORARY SILT FENCE, TYPE C	151525.00
441-0204	10000	SY	27.93	PLAIN CONC DITCH PAVING, 4 IN	279300.00
603-2024	3500	SY	43.35	STN DUMPED RIP RAP, TP 1, 24 IN	151725.00
603-7000	13500	SY	4.03	PLASTIC FILTER FABRIC	54405.00
700-6910	122	AC	804.69	PERMANENT GRASSING	98172.18
700-7000	122	TN	59.04	AGRICULTURAL LIME	7202.88
700-7010	305	GL	19.04	LIQUID LIME	5807.20
700-8000	150	TN	266.98	FERTILIZER MIXED GRADE	40047.00
700-8100	6100	LB	1.56	FERTILIZER NITROGEN CONTENT	9516.00
716-2000	50000	SY	1.06	EROSION CONTROL MATS, SLOPES	53000.00
Section Sub Total:					\$1,452,317.51

Section SIGNING AND MARKING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1031	1050	SF	16.89	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	17734.50
636-1032	670	SF	27.58	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING TP 6	18478.60
636-1076	5100	SF	28.30	HIGHWAY SIGNS, ALUM EXTRUDED PANELS, REFL SHEETING TP 6	144330.00
636-2070	310	LF	7.02	GALV STEEL POSTS, TP 7	2176.20
638-1001	4	LS	70943.32	STR SUPPORT FOR OVERHEAD SIGN, TP 1, STA -	283773.28
657-1054	47400	LF	3.47	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, WHITE, TP PB	164478.00
657-1084	3600	LF	4.46	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, WHITE, TP PB	16056.00
657-3054	94700	GLF	2.56	PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB	242432.00
657-6054	47400	LF	3.70	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB	175380.00
Section Sub Total:					\$1,064,838.58

Section MISCELLANEOUS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	2800000.00	TRAFFIC CONTROL -	2800000.00
621-6001	2400	LF	60.00	CONCRETE BARRIER, TP S-1	144000.00
621-6002	0	LF	70.23	CONCRETE BARRIER, TP S-2	0.00
621-6003	0	LF	160.45	CONCRETE BARRIER, TP S-3	0.00
622-1033	142000	LF	28.39	PRECAST CONCRETE MEDIAN BARRIER, METHOD 3	4031380.00
622-1050	6000	LF	118.73	PRECAST CONCRETE MEDIAN BARRIER, METHOD 4	712380.00
641-1100	500	LF	31.09	GUARDRAIL, TP T	15545.00
641-1200	20000	LF	13.69	GUARDRAIL, TP W	273800.00
641-5001	20	EA	479.73	GUARDRAIL ANCHORAGE, TP 1	9594.60
641-5012	20	EA	1553.85	GUARDRAIL ANCHORAGE, TP 12	31077.00
650-1300	2	EA	25243.62	IMPACT ATTENUATOR UNIT, (COMPRESSION CRASH CUSHION) TYPE S -	50487.24
682-6140	23800	LF	25.85	CONDUIT, RIGID, 4 IN	615230.00
Section Sub Total:					\$8,683,493.84

Section INFLATION AND E&C

Item Number	Quantity	Units	Unit Price	Item Description	Cost
999-9998	1	Lump Sum	0.00	INFLATION (0 YEARS @ 5%)	0.00
999-9999	1	Lump Sum	6527872.38	E&C (10%)	6527872.38
Section Sub Total:					\$6,527,872.38

Total Estimated Cost: \$71,806,596.17

NEED AND PURPOSE
PROJECTS NH-IM-85-2 (166-174)
BARROW, JACKSON, BANKS, FRANKLIN
P.I. NO. 110620, 110630, 110640, 110650, 110660, 110670, 110680, 110690, 110700
I-85/SR 403 IMPROVEMENTS

I-85/SR 403, a rural principal arterial, is a primary corridor in northeastern Georgia. The proposed project NH-IM-85-2 (166-174) would consist of adding one lane to I-85/SR 403 inside the median in each direction from SR 211 in Barrow County to north of SR 17 in Franklin County for a total of 47.2 miles.

Level of Service

The current Average Annual Daily Traffic (AADT) on I-85/SR 403 for projects NH-IM-85-2 (166-174) ranges from 35,800 to 42,800 providing a Level of Service in the "C" to "D" range. The projected (2025) traffic volumes for NH-IM-85-2 (166-174) range from 76,800 AADT to 95,300 AADT, providing for a LOS "F". The increasing traffic volumes, with 24% trucks, are projected to cause the roadway to reach unacceptable Levels of Service.

<i>Projects NH-IM-85-2</i>	<i>Current Year (2005) AADT</i>	<i>Current Year (2005) (LOS)</i>	<i>Design Year (2025) Projected AADT</i>	<i>Design Year (2025) Projected (LOS) Build</i>	<i>Design Year (2025) Projected (LOS) No Build</i>
(166)	51,600	D	95,300	E	F
(167)	51,600	D	87,700	D	F
(168)	53,800	D	91,500	E	F
(169)	53,200	D	90,500	E	F
(170)	51,200	D	87,100	E	F
(171)	51,200	D	87,100	E	F
(172)	49,500	D	84,200	E	F
(173)	47,000	C	79,900	D	F
(174)	45,200	C	76,800	D	F

Accidents

The latest year that complete accident data is available is 1997. The statewide average accident rate in 1997 for a rural interstate was 49 accidents per 100,000,000 vehicle miles traveled. Proposed projects NH-IM-85-2 (166-173) are below the statewide average. Proposed project NH-IM-85-2 (174) was above the statewide average.

<i>Projects NH-IM-85-2</i>	<i>Accidents</i>	<i>Accident Rate</i>	<i>Statewide Accident Average</i>
(166)	25	31	49
(167)	12	15	49
(168)	26	46	49
(169)	17	17	49
(170)	12	26	49
(171)	9	16	49
(172)	17	21	49
(173)	18	36	49
(174)	65	51	49

Logical Termini

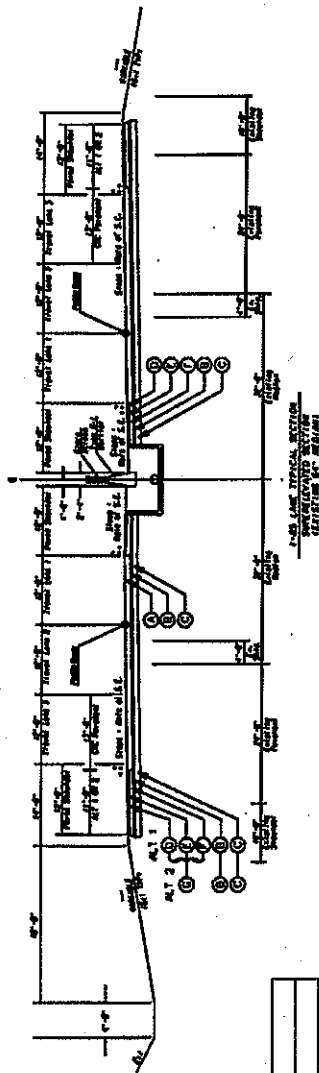
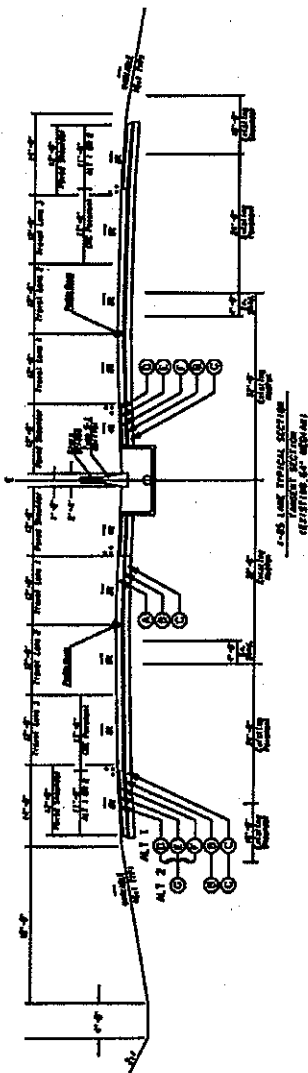
The proposed projects NH-IM-85-2 (166-174) have logical termini:

Projects NH-IM-85-2	<i>Southern Terminus</i>	<i>Northern Terminus</i>	<i>Project Length</i>
(166)	North of SR 211	Ties into proposed project NH-IM-85-2 (167) Location: North of SR 60	5.8 mi.
(167)	Ties into proposed project NH-IM-85-2 (166) Location: North of SR 60	Ties into proposed project NH-IM-85-2 (168) Location: North of US 129/SR 11	5.0 mi.
(168)	Ties into proposed project NH-IM-85-2 (167) Location: North of US 129/SR 11	Ties into proposed project NH-IM-85-2 (169) Location: North of SR 82	3.6 mi.
(169)	Ties into proposed project NH-IM-85-2 (168) Location: North of SR 82	Ties into proposed project NH-IM-85-2 (170) Location: North of SR 98	6.2 mi.
(170)	Ties into proposed project NH-IM-85-2 (169) Location: North of SR 98	Ties into proposed project NH-IM-85-2 (171) Location: North of US 441/SR 15	2.8 mi.
(171)	Ties into proposed project NH-IM-85-2 (170) Location: North of US 441/SR 15	Ties into proposed project NH-IM-85-2 (172) Location: North of SR 63	4.4 mi.
(172)	Ties into proposed project NH-IM-85-2 (171) Location: North of SR 63	Ties into proposed project NH-IM-85-2 (173) Location: North of SR 51	6.0 mi.
(173)	Ties into proposed project NH-IM-85-2 (172) Location: North of SR 51	Ties into proposed project NH-IM-85-2 (174) Location: North of SR 320	4.1 mi.
(174)	Ties into proposed project NH-IM-85-2 (173) Location: North of SR 320	North of SR 17	9.3 mi.

Other Projects in the Area

Although the proposed improvements demonstrate independent utility, it is also consistent with the goals of other projects in the area in order to improve the entire transportation network.

- NHS-M001-00 (027), Gwinnett, Barrow, Jackson, and Banks Counties: resurfacing of I-85 south of SR 211 in Gwinnett County to South of US 441/SR 15 in Banks County
- IM-00MS (266), I-85 Safety Upgrades at SR 211 in Barrow County and SR 53, SR 82, and SR 98 in Jackson County
- IM-85-2 (177), Jackson County Rest Areas
- STP-065-3 (55), SR 53 from I-85 to Lanier Raceway/Road Atlanta
- IM-00MS (325), I-85 Safety Upgrades at SR 15 and SR 63 in Banks County and SR 51, SR 320, SR 106, and SR 17 in Franklin County and SR 77 in Hart County
- EDS-IM0545 (19), Widen and Reconstruct SR 17 from CR 67 in Lavonia to Stephens County line including replacement bridge over I-85 and realigning ramp terminals on SR 17



PAVEMENT MATERIAL SCHEDULE

1	12" COAT REPAIR CONC. PWT. CL. 85% CONC.
2	330 1/2" ASPHALTIC CONCRETE, 18 mm SURFING
3	12" BRIDGE WEARWATER BASE
4	168 1/2" ASPHALTIC CONCRETE, 12.5 mm SURFING
5	330 1/2" ASPHALTIC CONCRETE, 18 mm SURFING
6	818 1/2" ASPHALTIC CONCRETE, 25 mm SURFING
7	PAVING MC CONC. PWT. CL. 1 CONC. 12 INCH THICK 2 JOINTED
8	WITH 12" SMOOTH CONC. BAY AT 15 FT GCS
9	6" GRADED 18 MARBLE STRIKE
10	** STRIPING, 80% S. ETC.

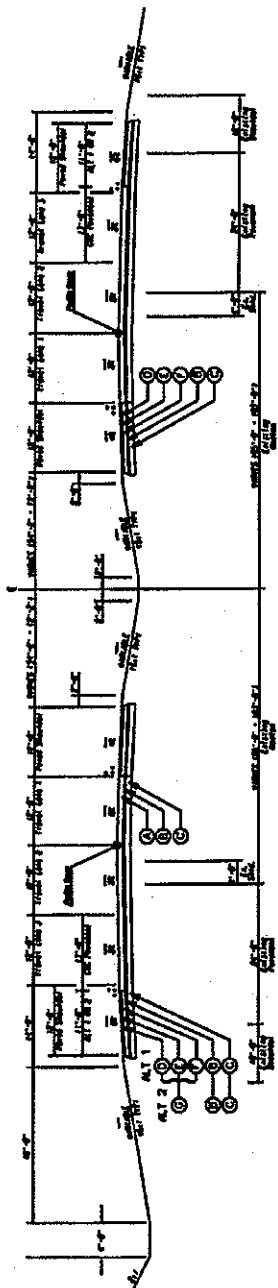
SLOPE CONTROLS		
SLOPE	CVT	FILL
4:1	0'-8"	0'-10"
3:1	8'-10'	"
2:1	OVER 10'	OVER 10'

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: **TYPICAL SECTIONS**
1-85 BANKS COUNTY
MAINLINE TYPICAL SECTIONS

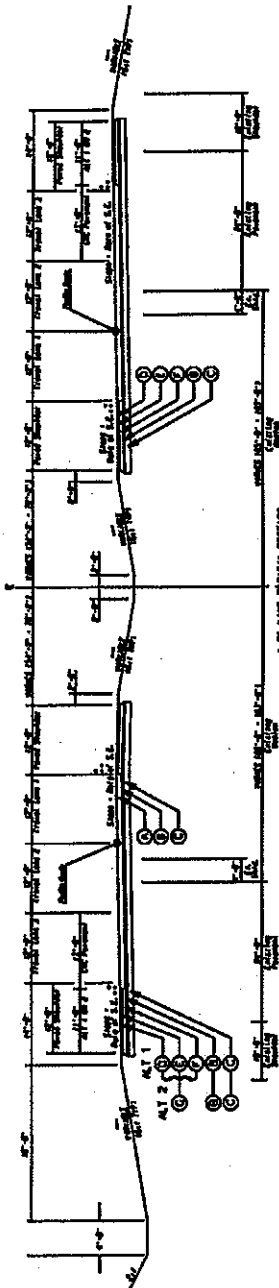
[illegible]

A horizontal scale bar labeled "SCALE IN FEET" is positioned below the map. The scale has markings at 0, 20, and 40 feet.

INTERNATIONAL POWER
3017E 300
325 PEACHTREE ST., S.E.
ATLANTA, GEORGIA 30303
(404) 579-9814
FAX (404) 517-4419



~~1-17 LANE ITALIAN SECTION~~
~~PAWING ST. SECTION~~
~~(EXISTING 170' - 205' MEDIAN)~~



1-25 TIME TYPED SECTION

PAVEMENT MATERIAL SCHEDULE	
②	1½" CHIST REIN CONC PAVT, CL RES CONC
③	3IN + ½" ASPHALTIC CONCRETE, 18 IN SUPERPAVE
④	12" GRADED AGGREGATE BASE
⑤	16S + 2F ASPHALTIC CONCRETE, 18.5 IN SUPERPAVE
⑥	2RD + 2F ASPHALTIC CONCRETE, 18 IN SUPERPAVE
⑦	8.5S + 2F ASPHALTIC CONCRETE, 25 IN SUPERPAVE
⑧	FLAIR FC CONC PAVT, CL 1 CONC, 12 IN THK FOR CASTED WITH 1½" SMOOTH DOWEL BAR AT 18 FT C/L
	* GRADED 18 INCHES STRIPS
	** STRIPING, MMS'S, ETC.

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	0'-6"	0'-10"
3:1	6"-10"	" "
2:1	OVER 10'	OVER 10'

INTERNATIONAL TOURS
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249 Peachtree St., N.E.
Atlanta, Georgia 30303
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